

# QUANTA



[www.quanta.org.uk](http://www.quanta.org.uk)

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**Volume 22 ISSUE 5/6**  
**Jun/Jul 2005**

## Information on The Group

Membership of QUANTA, the independent QL user group is by annual subscription. The Membership secretary can supply full details. Copies of the group's constitution & annual accounts are available from the Secretary. There is an extensive software library. There are active national and international subgroups. Details are given in the Welcome Booklet Disk.

## Quanta Committee - 2005/2006

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<b>Magazine Submissions</b>	Submissions to be on microdrive or floppy disk (Quill _doc preferred) or by email to the editor. Non-QDOS formatted material preferred as ASCII text file or RTF file.	
<b>Library Submissions</b>	<b>John Gregory (see above)</b>	
<b>Helpline Requests</b>	<b>Geoff Wicks</b> Email: helpline@quanta.org.uk	As Above These must be accompanied by an S.A.E.
<b>Missed Issues</b>	<b>John Gilpin (see above)</b>	
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You noticed, I am sure, that in the April/May issue of Quanta Magazine Roy Brereton announced that that issue was his last as Editor. Roy made a very good job of editing the magazine, and we shall sorely miss him in that role.

There is a volunteer, in the wings, to take on Editor of the magazine and I expect him to take over very quickly.

I am therefore acting editor for this issue.

Summer holidays are just upon us, and many of you will be lifting your heads for a few minutes from computing. Go, enjoy your break and come back refreshed to get back computing in September.

However before you go – I am hoping to see you at “QL is 21” on the weekend Saturday 29th / Sunday 30th October at the Ibis Hotel, Portsmouth.

We will be celebrating both the 21st Anniversary of the launch of the Sinclair QL and the 21st Birthday of QUANTA. It promises to be a very good weekend, including speakers and a celebratory dinner on the evening of Saturday 29th.

Going to stay at the Ibis for the weekend? Quanta has negotiated a special rate of £42.95 per room per night. Extended continental breakfast is £4.95 per person.

These rooms are not book able through Ibis central booking service

It is essential you book your accommodation direct with the Ibis Hotel, Portsmouth either by telephoning ++44(0)23 9264 0000 or in writing to The General Manager, Ibis Hotel, Winston Churchill Avenue, Portsmouth, Hampshire PO1 2LX, United Kingdom.

# Quanta Magazine

In making your reservation it is important to tell Ibis Hotel, Portsmouth that you are attending the "QL is 2!" Computer Conference which is being held there on Saturday 29th and Sunday 30th October 2005.

Finally when you have made your reservation please tell Roy Brereton that you have done so, so that, if necessary, he can seek an additional allocation of rooms and no would be attendee is turned away.

Our Treasurer, John Gilpin, asks me to remind members who renew their subscriptions mid year that July is here and subscriptions are now due.

Finally please send copy for the August/September 2005 issue of QUANTA Magazine to me as Chairman - for my address see inside front cover of this issue. Thank You!

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## SUBGROUP MEETINGS

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### **THE BIRMINGHAM BRANCH QL & 68000 User Group**

This long-running group has moved back to its previous venue, the Queens Head pub in the City Centre. Meetings remain open to Quanta members and non-members alike. The Queens Head is in Steelhouse Lane, Central Birmingham, four minutes walk from Snow Hill main-line railway station and has ample street parking nearby.

Meetings are usually on the first and third Monday of each month (but not on Bank holidays unless the previous one was cancelled for that reason). After your first meeting you're expected to pay £1 each time towards the organisation and monthly newsletter costs - except once a year when the group pays all those who attend a pound instead (We provide food twice a year for those who attend the AGM and the group's birthday party) and at meetings we discuss all sorts of things, QL-related and otherwise, usually from about 8:20pm onwards till 10:30 or later. The group owns QL hardware, a disk library and subscribes to relevant magazines. People can join the mailing list for £3.50 per year, even if they can't attend regularly.

The contact number remains Mike Bedford White's, on 0121 708 2560, anytime after 11am.

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## **EAST ANGLIAN QL USER GROUP**

Meetings happen on the 1st and 3rd Sundays of the month at Bramerton Village Hall. Bramerton is just south of Norwich. They start at 1pm and end at 5pm. There is free parking on site, and tea/coffee is also provided free. If you can, please bring your QL system, all welcome.

Tarquin Mills <specyverse@ntlworld.com> or Tel:01603-470399

## **QUANTA DORSET SUBGROUP**

Meetings are held at the Merley Community Centre in Harrier Drive, Merley just south of Wimborne Minster. All are welcome.  
Normally on the second Sunday of each month .

John Meadows Tel: 01202 576189, or John Mason, 01425 275894.

## **LONDON QL AND QUANTA GROUP**

We meet in the basement of the Borough Welsh Chapel, 90 Southwark Bridge Road, London SE1. This is almost opposite the junction with Marshalsea Road, at the other end of which, 5 minutes walk away, is the Borough Underground station. Parking easily available in Southwark Bridge Road for road users, cyclists welcome. The hire of the hall is £30 a year, and tea/coffee is provided at a small charge. Please bring your QL equipment if possible, all types welcome e.g. PC portables running emulators.  
2.00 p.m. to 6.00 p.m. on the second Sunday of every month.

Malcolm Cadman:Tel. 020 8691 5780; email: ql@mcad.demon.co.uk

## **NEMQLUG - THE NORTH EAST MANCHESTER QL USER GROUP**

181, Urmston Lane, Stretford, Manchester. M32 9EH (Near Junction 7 of M60 Motorway - Was Junction 7 M63 Motorway). Our informal meetings start at 7-00pm and finish at 11-00pm. All welcome.

Meets on the last Thursday of each month (except December).

John/Sarah Gilpin 0161-865 2872 (gilpins@ic24.net) or John/Alison Southern 01625-850067. (tarragon@bigfoot.com)

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## **SCOTTISH QL USERS GROUP**

SQLUG meets at George Gwilt's every second Sunday in the month. Please contact George Gwilt before coming to get the location.

Geogwilt@aol.com

## **SOLENT SUBGROUP**

Meets at Botley Market Hall, all welcome. Park at the back and use side entrance.

1st Saturday of the month from 2.00 pm to 6.00 pm.

Graham Evans, tel: 023 8040 3350.

## **SURREY QUANTA SUBGROUP (SQSG)**

Venue is St Giles Church Hall, Ashtead. (This is the other side, towards the downs, of the main Epsom - Leatherhead road, up Park Lane which is at the Epsom end of the town).

From 8.00 to 10.30 pm on the last Wednesday of each month, except December.

Ken Bain 01932 347 432 (to midnight), kenb@bcs.org.uk

## **SUSSEX QL USER GROUP**

Currently without a meeting place, anyone interested should contact Keith Mitchell or Roy Wood.

Roy Wood, 01273 386030 or Keith Mitchell, 01903 742263.

# QUANTA



## Independent QL Users Group

World-wide Membership is by subscription only,  
offering the following benefits:

Bimonthly Newsletter – up to 40 pages

Massive Software Library – All Free !

Free Helpline and Workshops

Regional Sub-Groups. One near you?

Advice on Software and Hardware problems

Subscription just £14 for UK members

Overseas subscription £17

Barclaycard: Visa: Access: MasterCard: Accepted

**\*Now in our Twenty Second Year\***

Further details from the Membership Secretary

**John Gilpin, 181, Urmston Lane  
Stretford, Manchester, M32 9EH**

**Tel. +44 (0) 161 865 2872**

or

**Visit the Quanta Web Site**

**<http://www.quanta.org.uk>**

**E-mail: [membership@quanta.org.uk](mailto:membership@quanta.org.uk)**

## Next QUANTA Sponsored Event

**SURREY QUANTA SUB-GROUP AND LONDON QL AND QUANTA GROUP PRESENT**

**BYFLEET 2005 QUANTA WORKSHOP**

**ON SUNDAY 25 SEPTEMBER 2005,**

**FROM 10AM TO 4 PM**

## JOCHEN MERZ SOFTWARE

**Kaiser-Wilh.-Str. 302 D-47169 Duisburg**  
**Tel. 0203 502011 Fax 0203 502012**  
**http://smsq.j-m-s.com smsq@j-m-s.com**

### QDT - The QL Desktop

QDT brings the QL a modern, easy- and intuitive-to-use graphical user interface. Arrange your programs, games, applications in folders, start your favourite applications with a single click. Fully configurable!

QDT comes with an automatic installer - like a guided tour. Installing it is as easy as never before!

System requirements:

- SMSQ/E Version 3.06 or later
- Graphics Driver 2 Colour support
- HARD DRIVE with at least 3MB free space.
- 4MB RAM

What do you get when you order QDT?

- A floppy disk for Aurora or quick-start users.
- A CD ROM containing a QXL.win file, backgrounds, sprite editor, and many other extras.
- A printed quick-start guide - 12 months free updates!

QDT costs EUR 43,- plus postage (EUR 3,- Europe, EUR 6,- rest of the world).

**NEW! NEW! NEW!**

### Easy Pointer Version 4

**NEW!**

You have probably read a lot about EasyPTR V4 in this issue - now is the time to order it!

Upgrade from old versions of EasyPTR EUR 39,90 plus p&p  
Brandnew version, if you do not own any old version of EasyPTR EUR 59,90 plus p&p  
(Postage EUR 5,- Europe, EUR 8,- rest of the world)

### **BALLED!** - new game for the Pointer Environment

Balled is the new Game from Wolfgang Lenerz for QDOS and SMSQ/E. It runs in high-colour mode (looks great) and can also be played in standard QL Mode 4.

Also, Balled uses the digital sound system if you run it on a recent version of SMSQ/E and QPC, Q40 and Q60! The aim of the game is to build lines by moving coloured balls around, following some rules, of course. After every move, more balls appear, so you have to be careful not to fill up the board - then the game is over! Different levels of difficulty and wildcard balls are also featured. Find out how to get bonus and higher scores to fill up the high-score table!

Balled costs only EUR 11,90 plus postage (EUR 2,- Europe, EUR 4,- rest of the world).

### QPCPrint - printer driver for QPC **NEW!! NEW!!**

**NEW!**

QPCPrint allows you to print to virtually any printer connected to your PC running QPC, even to fax and pdf printer drivers. It accepts EPSON ESC/P2 codes to any PAR printer and converts it to output which can be handled by Windows, which looks very similar to original EPSON output. You can even configure the individual fonts used by the emulation. This is THE application many QPC users waited for a long time! Shipped on CD.

QPCPrint costs only EUR 39,90 plus postage (EUR 3,- Europe, EUR 6,- rest of the world)

**If you wish to place your order via internet, please do not send your credit card details in an email!**  
**Please use the secure contact form on the SMSQ homepage: SMSQ.J-M-S.COM**  
**We accept VISA, MasterCard and Diners Club!**



Since the AGM I have taken over the position of Librarian as well as Software Editor so all library matters should now be directed to me. The main news is that the Library CD has now been relaunched at a much lower price. It now costs £2.00 including postage. To simplify matters the DOS directories have been removed and supporting text files updated. I have included an easier way to access the Library Guide LG 01, directly from the CD. It has been updated to reflect the current methods of obtaining library material.

It is worth pointing out that the programs on the Quanta Library CD can be accessed and copied from a real QL if you have a suitable drive attached to an Aurora/ Qubide setup and the program QCDEZE from the library.

A small point: if CD-based QXL.WIN files are copied to a hard drive for modification the read-only attribute of the copy must first be changed for this to work.

The zipped version of the library on HD discs has been discontinued because the effort of maintaining it is not justified by the market for it.

The cost of the CD is now so low that there will not be many cases where a large number of floppies will be preferred. However we will continue to support all formats for those with older equipment.

Quanta Magazine

# Q-Celt Computing

Specialists in QL specific CD's and DVD's, Hardware and Software.

c/o Darren Branagh, Gortnaclassa, Cong, Co.Mayo, Ireland.  
Tel: (+353)86-8100090. Email: [dbranagh@cmsperipherals.com](mailto:dbranagh@cmsperipherals.com)

## **PLEASE NOTE OUR NEW POSTAL AND EMAIL ADDRESSES!!**

And.....

Just to let you know, we are still very much alive!!  
We have been sadly missing from many of the recent shows due to family and work commitments – but we are still in business!! (honest!!)

So, if you are looking for the widest range of QL CD-ROM's, and DVD's, or some older hardware or software – then please contact us on any of the above methods – we don't bite!!

## **CALL OR EMAIL US TODAY!!**

We accept cheques made payable to D.Branagh, credit cards (by prior arrangement only) money orders, bank drafts, and even cash!! Due to stock levels and work commitments, please allow up to 14 days for delivery., though we will try to be at prompt as possible.

## Quanta Magazine

There is just one submitted program to mention. Steven Poole has submitted his and Bruno Coativy's Tally Sort routines (version 1.00). These are machine coded procedures accessible from S(uper)Basic which allow high speed sorting of integers - up to 32768 of them as an array in ascending or descending order. The frequency of each integer is also returned as second array. The assembler source is also provided. Ask for disc MA 03.

We have an author working to create new versions of Quill and Archive that will take advantage of the new high colours using QPC2 and which will add other features as well. Watch this space!

I can announce that Dilwyn Jones has made a very large quantity of his Public Domain material available to Quanta members, in the form of five CD's. These will also be available at £2.00 each including postage. The titles are:

QL Documentation version 2.71

QL Emulators version 1.27

Line Design Clipart

QL Literature

The Dilwyn Jones PD Library

The data is generally presented in the form of a large QXL.WIN which allows direct access from QPC2.

Dilwyn's CDs commonly contain the data as zipped files in addition. These can then be read on a real QL running SMSQ/E and then unzipped using ACP.

# Quanta Magazine

**SURREY QUANTA SUB-GROUP AND LONDON QL AND QUANTA GROUP  
PRESENT**

## **BYFLEET 2005 QUANTA WORKSHOP**

**ON SUNDAY 25 SEPTEMBER 2005, FROM 10AM TO 4 PM**

**This year the London Group and the Surrey Group are combining their annual shows into Byfleet 2005.**

**Byfleet** is just inside M25, between jns 10 & 11, and the Hall is just South of A245.

**From M25, jn11**; go East towards Weybridge, then turn right (South) onto A318 and follow it to Brooklands (now a business park), then through the old racetrack, turning right onto A245. Turn left at second roundabout, left at little roundabout, and Hall is on right.

**From M25, jn10**; take A3 towards London, left onto A245 towards Woking at next junction, (Painshill). After A318 joins, turn left at second roundabout - see above. (Or you can take the earlier left fork into Byfleet, go right at first small roundabout and left at the next, by the green.)

**From A3, either direction**; leave at Painshill junction with A245 Cobham/Woking - head for Woking.

**By train**; Byfleet & New Haw is on the Waterloo Woking line. It's 12 to 15 mins walk. Don't go through Brooklands - carry on down the old road, across the A245, and on to the green, then turn right.

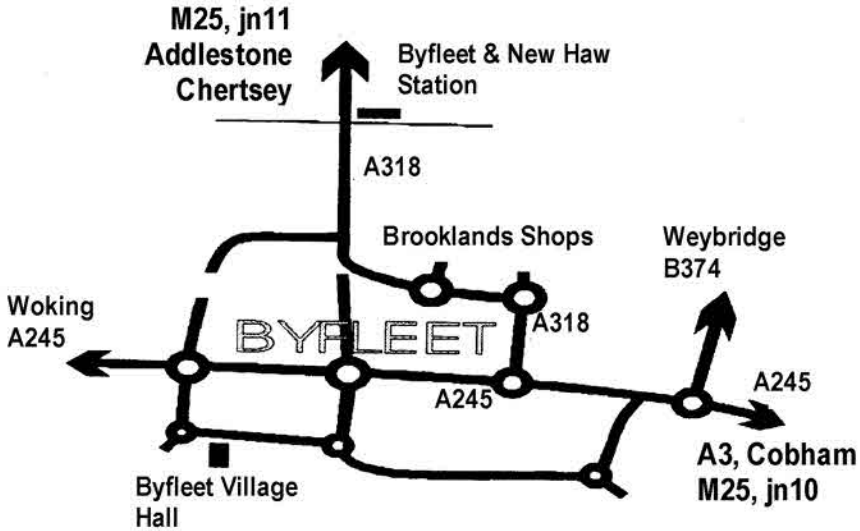
Free Parking, and all the usual attractions. If that isn't enough, Brooklands Museum (aircraft and motor racing) is just up the B374: or there's a Bus Collection on the A245 to Cobham: or the RHS Gardens at Wisley (RHS Membership needed on Sundays).

Up-to-date information with a link to more maps, is on [www.sadeye.co.uk](http://www.sadeye.co.uk).

Or call Malcolm Cadman, 020 8691 5780, [ql\(at\)mcad.demon.co.uk](mailto:ql(at)mcad.demon.co.uk)

or Ken Bain, 01932 347 432 (to 1am) [kenbbb\(at\)ntlworld.com](mailto:kenbbb(at)ntlworld.com)

# Quanta Magazine



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## POT-POURRI

Bruno Coativy

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This time, no complaints. Just answers...

N.B. by the time you read this, the programmes included in this article should be available from the QLCF and QUANTA Libraries.

## CHESS

In response to G P Carnes's letter (Quanta Volume 21, Issue 11/12, page 29), please find below a patch that makes CHESS useable from a floppy. I hasten to add that it's only relevant to PSION CHESS v2.01. This version contains a CHESSC file which is 66572 bytes long.

Here is the list of files of my master cartridge:

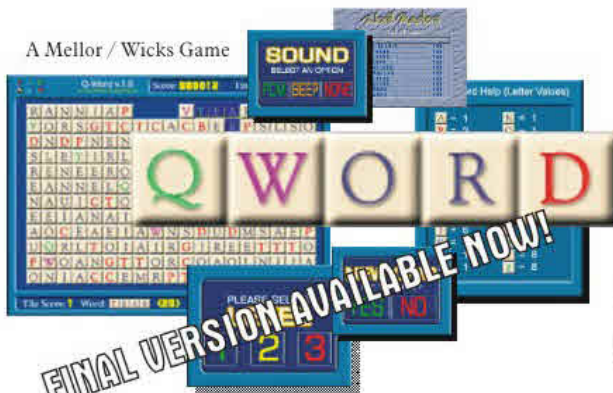
# RWAP Software

in cooperation with



## PRESENTS...

A Mellor / Wicks Game



for the Q40 & Q60  
(And Aurora/SGC)



for QPCII & QXL

**FINAL VERSION AVAILABLE NOW!**

### Scrabble® Meets Tetris® Meets the clock!

In glorious colour and digital sound! (Aurora too!)

For the first time in the history of the QL, a truly high colour, digital sound \*really\* addictive game, in superb 1024 x 512 (640 x 480 on QPC/QXL and 512 x 480 on the Aurora) high colour. SMSQ/e is NOT needed for the Aurora (and soon for the Q40/60) but it is recommended. The innovations are too many to mention but let's just say that the surprises start with its user-friendly installer which is unlike any other!

The object of the game is to clear letter tiles from the grid by using them to form words. Points are based on the length of the word and the letters used. Simple, yet addictive!

#### PRICES

- QWord for QPC2/QXL (CDROM) £20
- QWord for Q40/Q60 (HD FDD) £20
- QWord for Aurora/SGC (HD FDD) £20
- Add Pword £10
- (500,000 word UK dictionary)

#### LANGUAGES

Each version is supplied with one dictionary (normally the OSPD UK English Scrabble Dictionary). However, QWord can also be configured to use the following alternative language grids:

**Dutch, English (USA), English (UK), French & German**

If you want more than one version of QWord (eg. to play on Aurora as well) - add £5 for each additional version.

Specialist QTyp dictionaries for each language have been produced, which removes the need for accented characters in the foreign languages.

You can choose ANY one dictionary to be supplied with QWord. Alternatively, order additional dictionaries for £2 per dictionary.

## SPECIAL OFFER! FOR AURORA/SGC USERS

BUY Q-WORD WITH Colour Drivers version of SMSQ/e for the SGC

# !!ONLY £50!!

#### RWAP Services

28 Oak Road, Sheffield, Walsall, West Midlands WS4 1RQ, United Kingdom Website: <http://www.rwapsoftware.co.uk>

We accept:



(PayPal/Nochex Payments to RWAPSoftware@aol.com. Cheques in £ sterling made payable to R. Mellor)

# Quanta Magazine



## QL Today

The magazine for all QDOS SMSQ users  
published 5 times a year.

Volume 10 starts here!

Issue 1 of Volume 10 will be available mid June. Celebrating 10 years of providing top notch service and information to the QL community.

If you not returned your renewal forms please do so as soon as possible so you do not miss out.

Issue 9 saw the start of a new series to help people to get to grips with the new facilities, colours, emulators and hardware as well as many program reviews and super features.

You can subscribe by contacting :

Jochen Merz Software  
Kaiser-Wilhelm Str. 302, 47169 Duisburg, Germany  
Tel +49 (0) 203 502011 Fax +49 (0) 203 502012  
email : jmerz@j-m-s.com

Q Branch  
20 Locks Hill Portslade, Sussex, BN41 2LB. UK  
Tel +44 (0) 1273 386030 (eves) Fax +44 (0) 1273 430501  
email : sales@qbranch.demon.co.uk

web : [www.qtoday.com](http://www.qtoday.com)

# Quanta Magazine

DIR mdv1_:	WSTAT mdv1_:
chess2.01	CHESS
55/211 sectors	1436
CHESS	BOOT
BOOT	238
BBOOT	BBOOT
CHESSC	596
LOGO	CHESSC
	66572
	LOGO
	8192

And here is the patch:

```
100 DEFine PROCedure s
110   SAVE_O win1_ch201_bas_CHESSPatcher1_bas
120 END DEFine
130 :
140 REMark CHESSPatcher1_bas
150 REMark by Bruno Coativy (1991)
160 REMark Makes CHESS useable from a floppy
170 REMark Applies to PSION CHESS v2.01
180 REMark (length of CHESSC file: 66572 bytes)
190 :
200 base=ALCHP(66572)
210 LBYTES "flp1_CHESSC",base
220 RESTORE
230 REPEAT loop
240   IF EOF:EXIT loop
250   READ offset,word
260   POKE_W base+offset,word
270 END REPEAT loop
280 SBYTES_O "flp1_CHESSC",base,66572
290 RECHP base
300 STOP
310 :
```



## Quanta Magazine

```
320 DATA 8020,20085
330 :
340 DATA 14604,24582
350 :
360 DATA 17768,17402
370 DATA 17770,-4134
380 DATA 17772,13180
390 DATA 17774,25448
400 DATA 17776,2
410 DATA 17778,13180
420 DATA 17780,66
430 DATA 17782,12
440 DATA 17784,20032
450 DATA 17786,22679
460 DATA 17788,20085
470 :
480 DATA 18358,42
```

The above patch, which I made quite quickly in 1991 - just after purchase of the software - is based on my master cartridge. It was the most straightforward way to remove the protection.

In case it doesn't work, you can try the following patch:

```
100 DEFine PROCedure s
110   SAVE_O win1_ch201_bas_CHESSPatcher2_bas
120 END DEFine
130 :
140 REMark CHESSPatcher2_bas
150 REMark by Bruno Coativy (2005)
160 REMark Makes CHESS useable from a floppy
170 REMark Applies to PSION CHESS v2.01
180 REMark (length of CHESSC file: 66572 bytes)
190 :
200 base=ALCHP(66572)
210 LBYTES "flp1_CHESSC",base
220 RESTORE
```

# Quanta Magazine

```
230 REPeat loop
240   IF EOF:EXIT loop
250   READ offset,word
260   POKE_W base+offset,word
270 END REPeat loop
280 SBYTES_O "flp1_CHESSC",base,66572
290 RECHP base
300 STOP
310 :
320 DATA 8020,20085
330 :
340 DATA 13894,24576
350 :
360 DATA 14604,24582
370 :
380 DATA 17300,16962
390 :
400 DATA 17768,20032
410 DATA 17770,22679
420 DATA 17772,20085
430 :
440 DATA 18358,42
450 :
460 DATA 18972,24578
```

This one should work if your master cartridge - while being v2.01 - is not the same as mine in every respects, because it removes the protection at the deepest possible level. As an added bonus, it is shorter too.

The only other CHESS I own is a "Sinclair QL-Chess (PSION)". It comes with a standard "Sinclair design" box. But the cartridge is corrupted and I have only been able to retrieve files thanks to the "FORMAT ram1\_mdv1" command.

Here is the list of files of my master cartridge:

## Quanta Magazine

DIR mdv1_:	DIR ram1_:	WSTAT ram1_:
chess	RAM1	boot
65/219 sectors	99/256 sectors	238
boot	boot	chessc
chessc	chessc	65536
chess	chess*	chess*
bboot	bboot	1427
Logo	Logo	bboot
		587
		logo
		8192

I don't know what version of CHESS it is but it seems older than the other one.

From the "boot" file, it is possible to see that the programme has been designed to operate at address 184064. This seems to entail that this version of CHESS is position-dependant. So, incompatibilities are likely to occur when used on an expanded QL.

It's possible that G P Carne owns another version of CHESS than the two described above, because he states his version requires the master cartridge to be in MDV1\_ at startup, whereas mine requires it to be in MDV2\_.

Please, can someone enlighten me as to the different releases of PSION CHESS?. T.I.A. I'm sure this would make the Editor happy. Any idea, Geoff?.

Back to G P Carne's plea. Once unprotected, CHESS v2.01 works fine on a QL + GC combination. Nevertheless, It doesn't work on SMSQ (QXL2) and QPC2. But here, I suspect copy-protection isn't at fault. Various incompatibilities rather are...

# Quanta Magazine

## GRAPHIQL+

I have been contacted by a QLer who was not satisfied with the way the user is expected to exit from the GraphiQL+ programme.

This is quite comprehensible since no provisions have been made to terminate cleanly. The programme is of the "To exit, push the RESET button" type.

Well, this is not true anymore thanks to the following SuperBasic programme:

```
100 DEFine PROCedure s
110   SAVE_O win1_gqlp_bas_GQLPatcher_bas
120 END DEFine
130 :
140 REMark GQLPatcher_bas
150 REMark by Bruno Coativy (2004)
160 REMark Converts GraphiQL+ to a JOB
170 REMark To be executed by EXEC_W with no JOBS
other than JOB #0 loaded
180 REMark "clean" termination by pressing
SHIFT+CTRL+ALT keys
190 :
200 base=ALCHP(37680)
210 LBYTES "flp1_GQLPlus",base+37680-37604
220 RESTORE
230 REPEAT loop
240   IF EOF:EXIT loop
250   READ offset,word
260   POKE_W base+offset,word
270 END REPEAT loop
280 SEXEC_O "flp1_GQLPlus",base,37680,4096
290 RECHP base
300 STOP
310 :
320 DATA 0,24650
```

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330 DATA 2,0  
340 DATA 4,0  
350 DATA 6,19195  
360 DATA 8,9  
370 DATA 10,18290  
380 DATA 12,24944  
390 DATA 14,26729  
400 DATA 16,20812  
410 DATA 18,11008  
420 DATA 20,8200  
430 DATA 22,26368  
440 DATA 24,12154  
450 DATA 26,28674  
460 DATA 28,20034  
470 DATA 30,24576  
480 DATA 32,12146  
490 DATA 34,-20420  
500 DATA 36,17  
510 DATA 38,26142  
520 DATA 40,3091  
530 DATA 42,9  
540 DATA 44,26136  
550 DATA 46,3115  
560 DATA 48,7  
570 DATA 50,6  
580 DATA 52,26128  
590 DATA 54,20033  
600 DATA 56,-19908  
610 DATA 58,7  
620 DATA 60,26112  
630 DATA 62,11484  
640 DATA 64,30208  
650 DATA 66,29439  
660 DATA 68,28677  
670 DATA 70,20033  
680 DATA 72,24576  
690 DATA 74,11472

# Quanta Magazine

```
700 :
710 DATA 108,26220
720 DATA 110,28721
730 :
740 DATA 8618,26220
750 DATA 8620,28721
760 :
770 DATA 11530,24576
780 DATA 11532,-11498
790 :
800 DATA 12174,24576
810 DATA 12176,-12156
```

If the programme is to be executed on a QL together with at least a GC, the use of the SLUG command is advisable. Although using the programme without using the command would constitute an interesting challenge for experts of Shoot'em up video games...

## SMALL IS BEAUTIFUL

Please find below another programme I have found on my hard disk. It goes without saying that I have absolutely no idea what it is for. Well, since QUANTA Magazine lacks material, maybe it is worth printing.

```
100 DEFine PROCedure s
110   SAVE_O win1_gqlp_bas_XXXPatcher_bas
120 END DEFine
130 :
140 REMark XXXPatcher_bas
150 REMark by Bruno Coativy (2004)
160 REMark Certainly does something interesting
with the file "XXXXXXXX"???
170 REMark Obviously, some talent is needed to
get the picture!!!
180 :
190 file$="XXXXXXXX"
200 base=ALCHP(37604)
```

# Quanta Magazine

```
210 LBYTES "flp1_"&file$,base
220 POKE_W base+35840,24580
230 SBYTES_O "flp1_"&file$,base,37604
240 RECHP base
250 STOP
```

## GRAPHIQL

I purchased this graphical utility many years ago. I didn't try to de-protect it, because the manual seemed to imply that's indeed impossible!!!. Just kidding... In fact, it's really not worth the effort. By QDOS standards, it has been too badly written.

First, GRAPHIQL is a position-dependant programme. Which means that it executes perfectly on a bare, unexpanded QL, and it doesn't execute at all on an expanded one.

I can hear someone say "why not using TK2's RES\_128 command?". Of course, I immediately tried it. And of course it doesn't work either, because I have a 2MB ROMDISK connected. The ROMDISK - as is usual for directory devices - grabs some memory in RAM... that in this case is required by GRAPHIQL. BANG!!!.

Second, GRAPHIQL is driven by a set of - at most - 2 characters commands. There's a snag in that those characters are read by scanning the keyboard in the same way as the SuperBasic KEYROW keyword does.

This isn't mentioned on GRAPHIQL's jacket. And this makes GRAPHIQL pretty unusable on a keyboard which is not "QWERTY". Precisely, mine is "AZERTY". Scottish humour, I presume...

In fact, I suppose the authors have just forgotten that detail. This is probably why they later released GRAPHIQL+ which (whilst keeping the same keyboard reading principle) can also be menu-driven by means of a proprietary menu system. They also took this opportunity to make GRAPHIQL+ - at last - position-in dependant.

# Quanta Magazine

## THE QXL AND BIG QDOS/MSDOS FILES (IV)

The example given in my last year's article (Volume 21, Issue 7/8, Page 31) is incomprehensible and doesn't work. The problem is not that it is a bad example, but that some characters have been lost. The presence of the backslash character in the text has certainly something to do with this.

In fact, it should read:

Well, how can we transfer a file?. Simple. Provided you have a QXL.WIN with enough free space on it, say on the M drive, type:

```
- QXLTOOL -W M:\WIN
```

...which indicates QXLTOOL which drive to use and gives it write permission

```
>WRITE J:\ZIP
```

...which copies the file J:.ZIP into the QXL.WIN file on drive M

```
>QUIT
```

...to exit QXLTOOL

## QUANTA MAGAZINE/QUANTA

I've just read the Chairman's report 2005 in the Feb/Mar 2005 issue of QUANTA Magazine, and I would like to emphasize that the Magazine is - together with the Library - of vital importance for people who are unable to attend QUANTA Workshops. Geoff Wicks indirectly raised the point in his very interesting article entitled "WHERE ARE YOU?" published last summer.

As for the format, I would prefer QUANTA Magazine to stick with A5. On the one hand, that makes it visually different from QL-Today. On the other hand, is it reasonable to move from an A5 to A4 format in a period



# Quanta Magazine

of copy shortage?.

But what worries me mostly is the impressive decrease in membership: almost -10% in less than a year's time. It is to be noted that the decrease is more important for overseas members (-14.6%, thank you, Delwin: without your membership, it would have been -16.7%) than for UK members (-8.7%).

Long live the QL!

---

## FRACTAL CIRCLES

Stephen Poole

---

In former editions of Quanta I have explored the domain of Linear Fractals. Since then, I have begun investigating regular Circular Fractals, still using the QL's superb Turtle Graphics system, (which was originally designed for computer novices), as it is compact and very logical.

The results gave a handful of basic designs, the most surprising being a Sierpinsky's Gasket made of nothing but circles! Try experimenting by modifying the variables on line 130 as follows:

```
Snail Shells           : Fl=1: stp=360: xit=8
Linked Chains          : Fl=0: stp=180: xit=6
Sierpinsky's Gasket   : Fl=0: stp=120: xit=6
Perimeter Circles     : Fl=1: stp=90 : xit=4
Lacework Pentagons    : Fl=0: stp=72 : xit=3
Imbricated Hexagons   : fl=0: stp=60 : xit=3
```

At first I wrote the program by hand on paper, whilst on holiday in the Alps, but when I later tried to run it, it did not work until I realised I had forgotten line 260. Recursion really does take a lot of care to get right, but is worth the effort when the programs get really compact.

Next I shall try my hand at Fractal Curves, again trying to use the LOGO language, (another name for Turtle Graphics). I have seen a few

## Quanta Magazine

interesting fractals printed in French QL books, but copyright means I have to design curves entirely of my own design.

If you have found any good recursive graphs, why not let the editor know?

```
110 REMark Fractal_Circles_bas, by S.Poole, v22feb2004
120 REMark Draws Fractal Peripheral Circles.
130 CLEAR: fl=0: stp=120: xit=6
140 OPEN#1,con_8: WINDOW 512,256,0,0: CLS: SCALE
12,-6,-6
150 radius=2: INK 7: FILL fl: CIRCLE 0,0,radius:
FILL 0
160 Perimeter radius,0
170 BEEP 12345,67: i$=INKEY$(#1,-1): WINDOW
256,206,256,0: STOP
180 :
190 DEFine PROCedure Perimeter(radia,count)
200 LOCAL angle, half, distance: half=radia/2:
distance=radia+half
210 IF count=xit: RETurn
220 FOR angle=0 TO 360-stp STEP stp
230 TURNT0 angle: MOVE distance
240 FILL fl: CIRCLE_R 0,0, half: FILL 0
250 Perimeter half, count+1
260 TURNT0 angle: MOVE -distance
270 END FOR angle
280 END DEFine
290 ::
```

## Teaching Additions

Stephen Poole

---

Twenty-odd years ago, when my daughter started learning her three 'R's at school, I wrote programs to help her practice her arithmetic. She far more enjoyed training with the QL than with me, as that way she could keep her mistakes to herself until she became fully competent!

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At the time there were PC programs available for schoolchildren, but unfortunately they simply printed, for example, '3 X 9' and checked the answers. So I decided to break down the arithmetic operations as we do them by hand, allowing a second chance at every level whenever mistakes were made, and thus allowing children to progress. Within a few weeks she had made considerable progress and soon became almost infallible....

For a long time I have intended to make these routines available to Quanta members, but somehow the relevant microdrive tapes seem to have got lost, so I have finally decided to rewrite them from scratch. The first installment is 'PLUS\_bas', which lets you select the number of numbers to add, the size of numbers to add, the number of retries per error, and finally gives a mark as a percentage. Zero percent is no error. (Can you get zero? Just try it with say 9 numbers and 19 figures with 1 retry!).

Of course I could have written this program to race against the clock. But as that takes but two lines of SuperBasic, I decided to leave that little exercise up to you.....Extra complexity can always be included in any program, but I decided to keep things simple. (For example, only positive numbers are allowed). Indeed, this routine was a stepping-stone for writing code to add numbers which greatly improve on the QL's 10-digit capacity. More on that in a forthcoming article perhaps....

At first you will have to explain how to use the program to children, as I do not wish to encumber the listing with yards of instructions, but they soon get the knack of it and greatly enjoy making progress.

Next time, subtractions, then multiplications and later still divisions. I regret that I didn't rewrite these routines years ago. At least they will be ready again for my grandchildren...

```
110 REMark PLUS_bas, by S.Poole, v17may2005.
120 REMark LRUN under QDOS, or EXEC with SMSQ.
130 REMark Hit ESCape key when done to quit.
140 CLEAR: OPEN#1,con_16: WINDOW 512,256,0,0
150 :
```

# Quanta Magazine

```
160 REPEAT loop
170   REMARK INITIALISE THE PROGRAM:
180     PAPER 2: CLS: CSIZE 0,0: STRIP 0: OVER 0
190     INPUT' How many numbers to Add (2-8)?'!p
200     SELECT p: =2 TO 8 : =REMAINDER : GO TO 190
210     INPUT' How many figures long (1-25)?'!N
220     SELECT N: =1 TO 25: =REMAINDER : GO TO 210
230     INPUT' How many tries per figure(1-3)?'!k
240     SELECT k: =1 TO 3: =REMAINDER : GO TO 230
250     n1=N+1: p1=p+1: p2=p+2
260     STRIP 0: PAPER 2: INK 7: CSIZE 3,1
270     CLS: DIM t$(n1,p2): er=0: tries=0
280     :
290     REMARK INITIALISE THE GRID:
300     FOR i=1 TO p
310       FOR f=2 TO n1: t$(f,i)=RND(0 TO 9): AT i,f: PRINT
t$(f,i)
320     END FOR i
330     FOR f=1 TO n1: t$(f,p1)='0': t$(f,p2)='0'
340     AT 1,1: PRINT ' ': AT 2,1: PRINT ' '
350     :
360     REMARK CALCULATE FROM RIGHT TO LEFT:
370     FOR f=n1 TO 2 STEP -1
380       REMARK Add the column:
390       n$=t$(f,p2): FOR i=1 TO p: n$=n$+t$(f,i)
400       IF LEN(n$)='11': n$='0'&n$
410       :
420       REMARK GET THE SUM-LINE FIGURE:
430       calculate p1,f,n$(2)
440       t$(f,p1)=n$(2): AT p1,f: PRINT t$(f,p1)
450       :
460       REMARK GET THE CARRY-LINE FIGURE:
470       j=f-1: calculate p2,j,n$(1)
480       t$(j,p2)=n$(1): AT p2,j: PRINT t$(j,p2)
490     END FOR f
500     :
510     REMARK GET THE INITIAL SUM-FIGURE:
520     calculate p1,1,t$(1,p2)
530     t$(1,p1)=t$(1,p2): AT p1,1: PRINT t$(1,p1)
540     :
550     REMARK EPILOGUE:
560     score=(er*100)/tries
570     AT p2,1: CLS 3
580     IF t$(1,p1)='0': AT p1,1: PRINT ' '
590     AT p+3,1: PRINT 'Errors:'!INT(score)&'%'
```

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```
600     i$=INKEY$(#1,-1): so=CODE(i$)=27
610     IF so: WINDOW 512,206,0,0: CLS: CSIZE 0,0: STOP
620 END REPeat loop
630 :
640 DEFine PROCedure calculate(_1, _2, _3$)
650     REMark CHECK FOR CORRECT FIGURE:
660     ct=1
670     i$=key$_1,_2): tries=tries+1
680     IF i$=_3$ THEN
690         BEEP 12345,6
700         ELSE
710         er=er+1: BEEP 12345,67
720         REMark TRY AGAIN:
730         IF ct<k: ct=ct+1: GO TO 670
740     END IF
750 END DEFine
760 :
770 DEFine FuNction key$(dn,ac)
780     REMark FLASH CURSOR FOR INKEY$:
790     OVER -1: STRIP 4
800     REPeat loop2
810         AT dn,ac: PRINT '_': ky$=INKEY$(#1,15)
820         IF ky$<>'': EXIT loop2
830     END REPeat loop2
840     OVER 0: STRIP 0: RETurn ky$
850 END DEFine
```

---

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